

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-108 (Canceled)

109. (Currently Amended) An isolated detector of a cell type which identifies on the cell type a cell marker, wherein the cell marker is capable of binding to a GCTM-5 antibody produced by a hybridoma having ECACC accession number 03101603 according to claim 104.

110. (Previously Presented) The detector according to claim 109 which is an antibody, fragment or equivalent thereof, ligand or complimentary molecule to the cell marker.

111. (Previously Presented) The detector according to claim 109 which is an antibody, fragment or equivalent thereof.

112. (Previously Presented) The detector according to claim 109 which is a GCTM-5 antibody or active fragment thereof.

113. (Currently Amended) The detector according to claim 109 which can compete against a GCTM-5 antibody for binding, wherein the GCTM-5 antibody is produced by a hybridoma having ECACC accession number 03101603.

114. (Canceled)

115. (Previously Presented) The detector according to claim 109 which detects the cell marker on a stem cell.

116. (Previously Presented) The detector according to claim 109 which detects the cell marker on a sub population of stem cells.

117. (Currently Amended) The detector according to claim 109 wherein the stem cell type is selected from the group consisting of: a hepatoblast; a hepatic stem cell; a hepatic

progenitor cell; a pancreatic stem cell; a pancreatic progenitor cell; a hepatic cancer cell; and a pancreatic cancer cell.

118. (Previously Presented) The detector according to claim 115 wherein the stem cell is a cell of the biliary epithelium.

119. (Previously Presented) The detector according to claim 115 wherein the stem cell is proliferating.

120. (Currently Amended) A hybridoma which produces an antibody to a cell marker, wherein the cell marker is capable of binding to a GCTM-5 antibody produced by a hybridoma having ECACC accession number 03101603~~-according to claim 104.~~

121. (Currently Amended) A hybridoma which produces a GCTM-5 antibody of ECACC accession number 03101603, or fragment thereof.

122-169 (Canceled)

170. (Currently Amended) A kit for detecting a cell marker, said kit comprising a detector according to claim 109 which is capable of detecting the cell marker~~-according to claim 104 on the cell.~~

171. (Currently Amended) The kit according to claim 170, wherein the detector is capable of detecting~~-which detects~~ a cell marker on a subpopulation of stem cells or in a biological sample.

172. (Currently Amended) The kit according to claim 170, wherein the detector is capable of detecting~~-which detects~~ the cell marker on a cell selected from the group consisting of: a hepatoblast; a hepatic stem cell; a hepatic progenitor cell; a pancreatic stem cell; a pancreatic progenitor cell; a biliary cell; a biliary epithelial cell; a hepatic cancer cell; and a pancreatic cancer cell.

173. (Currently Amended) The kit according to claim 170, wherein the detector is capable of detecting~~-which detects~~ the cell marker on a ~~stem~~ cell that is proliferating.

174. (Currently Amended) The kit according to claim 170, wherein the detector is capable of detecting~~which detects~~ the cell marker in a biological sample including cell culture, tissue culture, conditioned medium, tissue sample, blood, serum, plasma and other bodily fluids and biopsy samples.

175. (Currently Amended) The kit according to claim 170 wherein the detector is a GCTM-5 antibody produced by a hybridoma having ECACC accession number 03101603, or active fragment thereof.

176. (Canceled)

177. (Currently Amended) A kit for isolating a subpopulation of stem cells, said kit comprising a detector according to claim 109 for detecting cells expressing a marker on the cell ~~according to claim 104~~ and a means to separate the cells detected by the detector.

178. (Currently Amended) The kit according to claim 177 for isolating which isolates a stem cell selected from the group consisting of: a hepatoblast; a hepatic stem cell; a hepatic progenitor cell; a pancreatic stem cell; and a pancreatic progenitor cell; ~~a biliary cell; a biliary epithelial cell; a hepatic cancer cell; and a pancreatic cancer cell.~~

179. (Currently Amended) The kit according to claim 177 for isolating which isolates a stem cell that is proliferating.

180. (Currently Amended) The kit according to claim 177 for isolating which isolates a stem cell from a biological sample including cell culture, tissue culture, conditioned medium, tissue sample, blood, serum, plasma and other bodily fluids and biopsy samples.

181. (Currently Amended) The kit according to claim 177 wherein the detector is a GCTM-5 antibody produced by a hybridoma having ECACC accession number 03101603, or active fragment thereof.

182. (Canceled)